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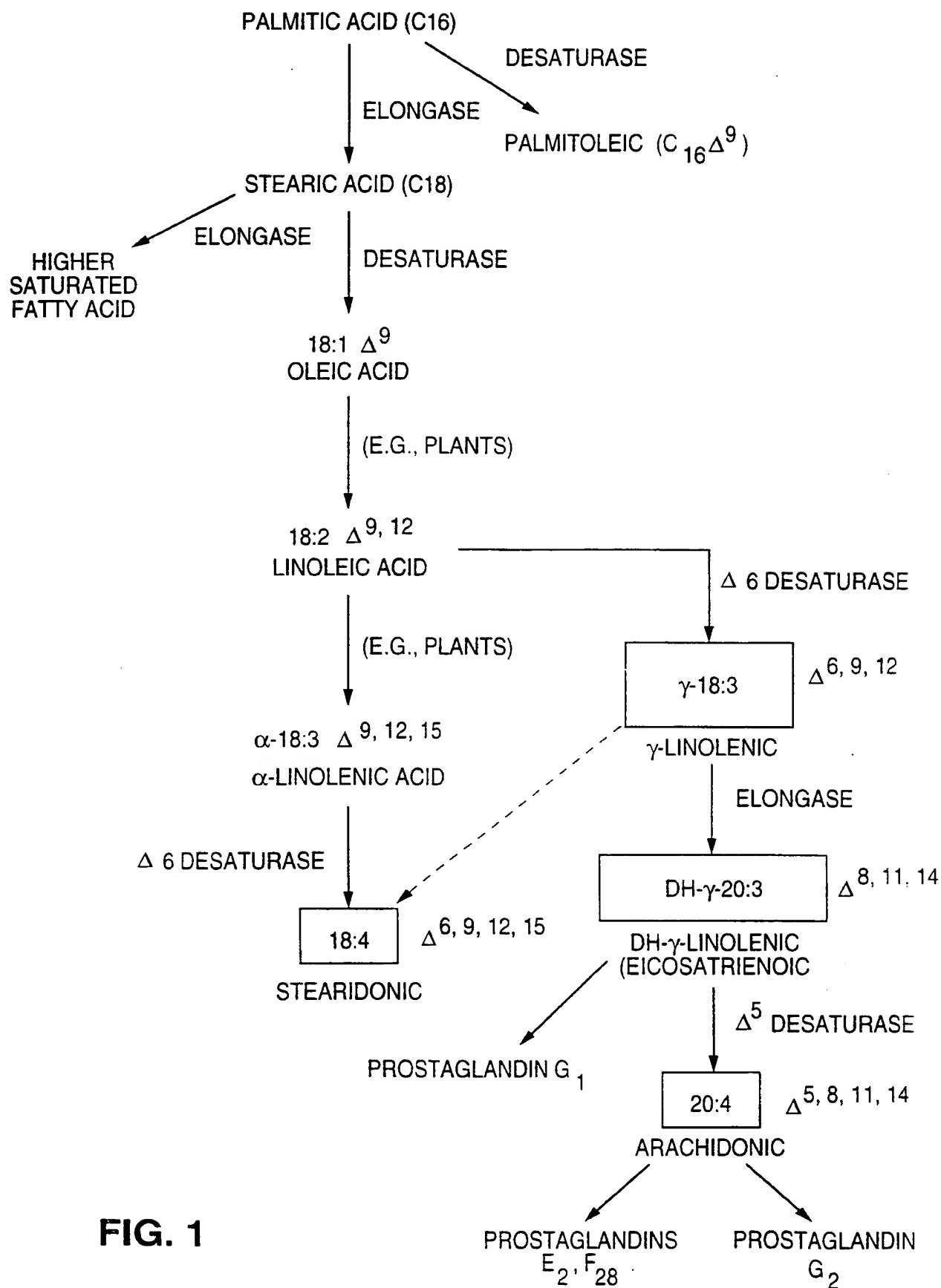


FIG. 1

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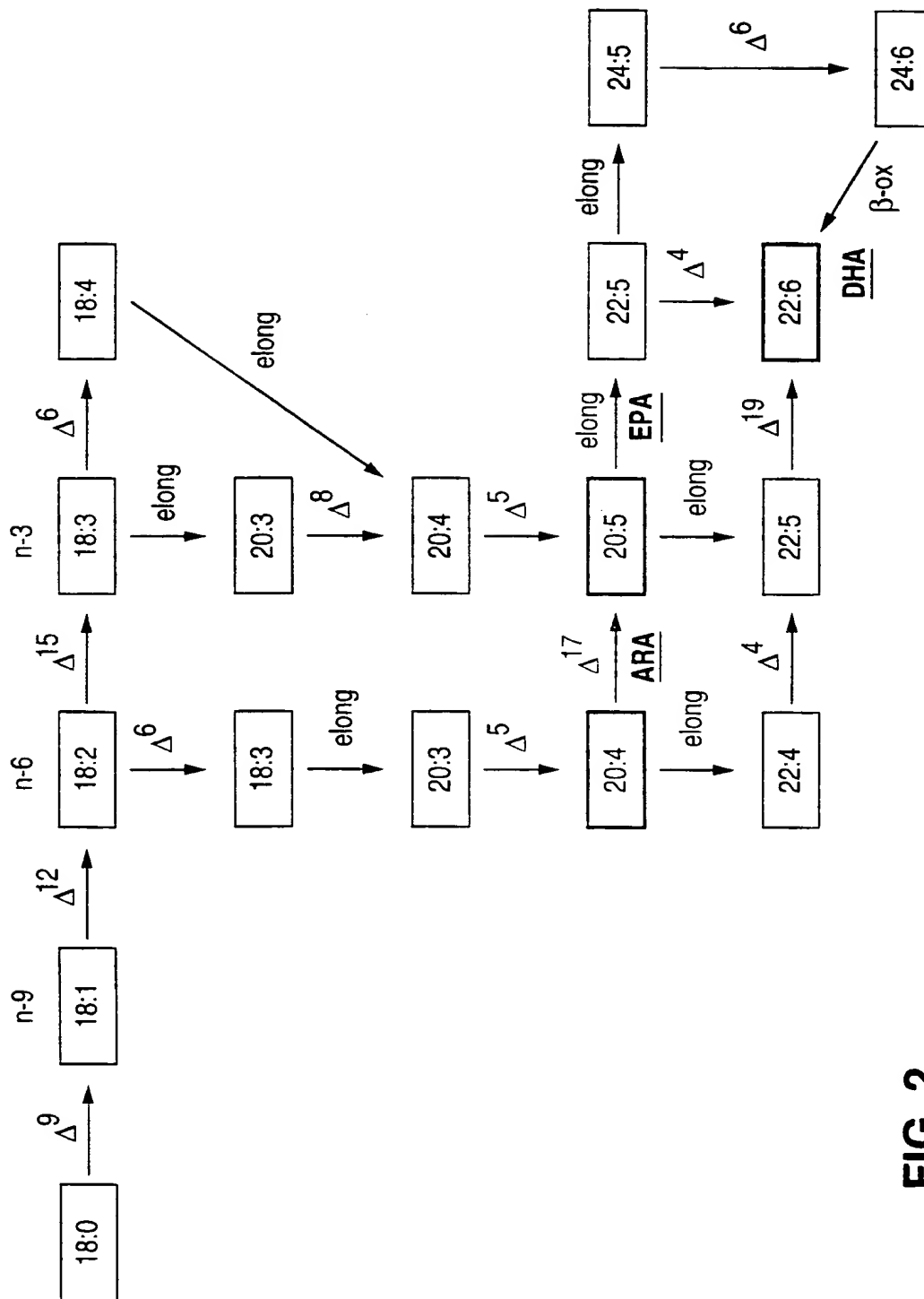


FIG. 2

APPROVED	O.G. FIG.	
BY	CLASS	DATE
DRAFTSMAN	WO	08/10/1993

PCT/US98/07126

60 *
CGACACTCCT TCCTTCTTCT CACCCGTCCT AGTCCCCTTC AACCCCCCTC TTTGACAAAG
ACAACAAACC ATG GCT GCT GCT CCC AGT GTG AGG ACG TTT ACT CGG GCC GAG
Met Ala Ala Pro Ser Val Arg Thr Phe Thr Arg Ala Glu
120 *
GTT TTG AAT GCC GAG GCT CTG AAT GAG GGC AAG AAG GAT GCC GAG GCA
Val Leu Asn Ala Glu Ala Leu Asn Glu Gly Lys Lys Asp Ala Glu Ala
180 *
CCC TTC TTG ATG ATC ATC GAC AAC AAG GTG TAC GAT GTC CGC GAG TTC
Pro Phe Leu Met Ile Ile Asp Asn Lys Val Tyr Asp Val Arg Glu Phe
240 *
GTC CCT GAT CAT CCC GGT GGA AGT GTG ATT CTC ACG CAC GTT GGC AAG
Val Pro Asp His Pro Gly Gly Ser Val Ile Leu Thr His Val Gly Lys
300 *
GAC GGC ACT GAC GTC TTT GAC ACT TTT CAC CCC GAG GCT GCT TGG GAG
Asp Gly Thr Asp Val Phe Asp Thr Phe His Pro Glu Ala Ala Trp Glu
360 *
ACT CTT GCC AAC TTT TAC GTT GGT GAT ATT GAC GAG AGC GAC CGC GAT
Thr Leu Ala Asn Phe Tyr Val Gly Asp Ile Asp Glu Ser Asp Arg Asp
ATC AAG AAT GAT GAC TTT GCG GCC GAG GTC CGC AAG CTG CGT ACC TTG
Ile Lys Asn Asp Phe Ala Ala Glu Val Arg Lys Leu Arg Thr Leu

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FIG. 3A

APPROVED	09/367013
BY	WO 98/46763
DRAFTSMAN	CLASS

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PCT/US98/07126

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420 *
TTC CAG TCT CTT GGT TAC TAC TCT TCC AAG GCA TAC TAC GCC TTC
Phe Gln Ser Leu Gly Tyr Tyr Asp GAT TCG Ser Ser Lys Ala Tyr Tyr Ala Phe

480 *
AAG GTC TCG TTC AAC CTC TGC TGG GGT TTG TCG ACG GTC ATT GTG
Lys Val Ser Phe Asn Leu Cys Ile Trp Gly Leu Ser Thr Val Ile Val

540 *
GCC AAG TGG GGC CAG ACC TCG TCG GCC AAC GTG CTC TCG GCT GCG
Ala Lys Trp Gly Gln Thr Ser Ser Leu Ala Asn Val Leu Ser Ala Ala

600 *
CTT TTG GGT CTG TTC TGG CAG CAG TGC GGA TGG Trp Leu Ala His Asp Phe
Leu Leu Gly Leu Phe Trp Gln Gln Cys Gly Trp Trp Leu Ala His Asp Phe

660 *
TTG CAT CAC CAG GTC TTC CAG GAC CGT TTC TGG GGT GAT CTT TTC GGC
Leu His His Gln Val Phe Gln Asp Arg Phe Phe Ser Ser Gly Asp Leu Phe Gly

720 *
GCC TTC TTG GGA GGT GTC TGC CAG GGC TTC TCG TCC TCG TGG TGG AAG
Ala Phe Leu Gly Val Cys Gln Gly Phe Ser Ser Ser Ser Trp Trp Lys

780 *
GAC AAG CAC AAC ACT CAC CAC GCC GCC AAC GTC CAC GGC GAG GAT
Asp Lys His Asn Thr His His Ala Ala Pro Asn Val His Gly Glu Asp

FIG. 3B

APPROVED	O.G. FIG.	
BY	WO 98/46763	
DRAFTSMAN	CLASS	SUBCLASS

PCT/US98/07126

09/367013

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CCC Pro	GAC Asp	ATT Ile	GAC Asp	ACC Thr	CAC His	CCT Pro	CTG Leu	CTG Leu	TTG Leu	ACC Thr	TGG Trp	AGT Ser	GAG Glu	CAT His	GCG Ala	TTG Leu
GAG Glu	ATG Met	TTC Phe	TCG Ser	GAT Asp	GTC Val	CCA Pro	GAT Asp	GAG Glu	GAG Glu	GAG Glu	CTG Leu	ACC Thr	CGC Arg	ATG Met	TGG Trp	TCG Ser
840																
CGT Arg	TTC Phe	ATG Met	GTC Val	CTG Leu	AAC Asn	CAG Gln	ACC Thr	TGG Trp	TGG Trp	TTT Phe	TAC Tyr	TTC Phe	CCC Pro	ATT Ile	CTC Leu	TCG Ser
900																
TTT Phe	GCC Ala	CGT Arg	CTC Leu	TCC Ser	TGG Trp	TGC Cys	CTC Leu	CAG Gln	CAG Gln	TCC Ser	ATT Ile	CTC Leu	TTT Phe	GTG Val	CTG Leu	CCT Pro
AAC Asn	GGT Gly	CAG Gln	GCC Ala	CAC His	AAG Lys	CCC Pro	TCG Ser	GGC Gly	GGC Gly	GCG Ala	CGT Arg	GTG Val	CCC Pro	ATC Ile	TCG Ser	TTG Leu
1020																
GTC Val	GAG Glu	CAG Gln	CTG Leu	TCG Ser	CTT Leu	GCG Ala	ATG Met	CAC His	CAC His	TGG Trp	ACC Thr	TGG Trp	TAC Tyr	CTC Leu	GCC Ala	ACC Thr
ATG Met	TTC Phe	CTG Leu	TTC Phe	ATC Ile	AAG Lys	GAT Asp	CCC Pro	GTC Val	GTC Val	AAC Asn	ATG Met	CTG Leu	GTG Val	TAC Tyr	TTT Phe	TTG Leu
1080																
GTG Val	TCG Ser	CAG Gln	GCG Ala	GTG Val	TGC Cys	GGA Gly	AAC Asn	TTG Leu	TTG Leu	TTG Leu	GCG Ala	ATC Ile	GTG Val	TTC Phe	TCG Ser	CTC Leu

FIG. 3C

APPROVED	C.G. FIG.	
BY	WO 98/46763	
DRAFTSMAN	CLASS	30/80/CLASS

PCT/US98/07126
09/367013

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1140 *
AAC CAC AAC GGT ATG CCT GTG ATC TCG AAG GAG GCG GTC GAT ATG
Asn His Asn Gly Met Pro Val Ile Ser Lys Glu Glu Ala Val Asp Met

1200 *
GAT TTC TTC ACG AAG CAG ATC ATC ACG GGT CGT GAT GTC CAC CCG GGT
Asp Phe Phe Thr ACG AAG CAG ATC ATC ACG GGT CGT GAT GTC CAC CCG GGT
CTA TTT GCC AAC TGG TTC ACG GGT GGA TTG AAC TAT CAG ATC GAG CAC
Leu Phe Ala Asn Trp Phe Thr Gly Gly Leu Asn Tyr Gln Ile Glu His

1320 *
CAC TTG TTC CCT TCG ATG CCT CGC CAC AAC TTT TCA AAG ATC CAG CCT
His Leu Phe Pro Ser Met Pro Arg His Asn Phe Ser Lys Ile Gln Pro

1380 *
GCT GTC GAG ACC CTG TGC AAA AAG TAC AAT GTC CGA TAC CAC ACC ACC
Ala Val Glu Thr Leu Cys Lys Lys Tyr Asn Val Arg Tyr His Thr Thr

1440 *
GGT ATG ATC GAG GGA ACT GCA GAG GTC TTT AGC CGT CTG AAC GAG GTC
Gly Met Ile Glu Gly Thr Ala Glu Val Phe Ser Arg Leu Asn Glu Val

TCC AAG GCT GCC TCC AAG ATG GGT AAG GCG CAG TAAAAAAA AAACAAGGAC
Ser Lys Ala Ala Ser Lys Met Gly Lys Ala Gln

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FIG. 3D

APPROVED	O.G. FIG.	
BY	CLAWD	98/16743S
DRAFTSMAN		

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PCT/US98/07126

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GTTTTTTTC GCCAGTGCCT GTGCCTGTGC CTGCTTCCCT TGTCAAGTCG AGCGTTTCTG
 1500 *
 GAAAGGATCG TTCAGTGCAG TATCATCAAT CTCCTTTTAC CCCCCGCTCA TATCTCATTC
 1560 *
 ATTTCTCTTA TTAACAACCT TGTCCCCCCT TTCACCG

FIG. 3E

APPROVED	CLAW
BY	WO 98/46763S
DRAFTSMAN	

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PCT/US98/07126

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Ma524 EVRKLRTL FQSLGYDSSKAYYAFKVSFNLCIWGLSTVIVAKWGQTSTLANVLSAALLGL 90
ATTS4723 - - - - - VTLY-TLAFVAAAMSLGVLYGVLAACPSSVXPHQIAAGLLGL 38
12-5 - - - - - GVL YGVLA CTSVFAHQIAAALLGL 24
T42806 - - - - - GXX - - - - - 4
W28140 - - - - - - - - - - - 1
R05219 - - - - - C - - - - - 2
W53753 - - - - - - - - - - - 1

Ma524 FWQQCGWLAHDFLHHQVFQDRFWGDLFGAFLGGVC-QGFSSSWKDKKNTTHHAAPNVHGE 119
ATTS4723 LWIQSAYIGXDSGHYVIMSNKSNX-FAQLLSGNCLTGI IAWWKWTHNAAHHLACNSLDY 97
12-5 LWIQSAYIGHDSGHYVIMSNKSYNR-FAQLLSGNCLTGIS IAWWKWTHNAAHHLACNSLDY 83
T42806 - - - - - - - - - - - 4
W28140 - - - - - - - - - - - 1
R05219 - - - - - - - - - - - 2
W53753 - - - - - - - - - - - 1

Ma524 DPDI DTHPLLTWSEHALEMESDVPDEELTRMWS - - - - - RFMVLNQTWFFPILSFARLSW 174
ATTS4723 GPNLQHIIP - - - - - 105
12-5 DPDLQHIIPVFAVSTK - - - - - FSLTSRFDYDRLKLTFGPVARFLVSYQHFTYYPVVMCFGRINL 140
T42806 - - - - - - - - - - - 4
W28140 - - - - - - - - - - - 1
R05219 - - - - - - - - - - - 2
W53753 - - - - - - - - - - - 1

FIG. 4A

APPROVED	C.G. FIG.
BY	WG 98/46763
DRAFTSMAN	CLASS SUBCLASS

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PCT/US98/07126

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Ma524	CLQSI L F V L P N G Q A H K P S G A R V P I S L V E Q L S L A M	229
ATTS4723	W W	105
12-5	F I Q T F L L F S K R E	185
T42806	W W	29
W28140	N F A G I L V	33
R05219	P A T E V G G L A W M I T Y R F F L T Y V P L L G L K A F L	2
W53753	R H E A R G G T R L A Y M L V C M Q W T D L L W A A S Y R F F L S Y S P F Y G A T G T L	48
Ma524	Y F L V S Q A V C G N L L A I V F S L N H N G M P V I S K E E A V D M D F F T K Q I I T G R D V H P G L F A N W F T G G	289
ATTS4723	W W	105
12-5	F F V F T S F T V T A L Q H I Q F T L N H F A A D V Y V G P P T G S D W F E K Q A A G T I D I S C R S Y M D W F F G G	244
T42806	X F V F T G F T V T A L Q H I Q F T L N H F A A D V Y V G P P T G S D W F E K Q A A G T I D I S C R S Y M D W F F G G	88
W28140	L F F I V R F L E S N W F V W V T Q M N H I P M H I D H D R N M D W V S T Q L Q A T C N V H K S A F N I D W F S G H	90
R05219	W W	23
W53753	L F V A V R V L E S H W F V W I T Q M N H I P K E I G H E K H R D W A S S Q L A A T C N V E P S L F D W F S G H	105
Ma524	L N Y Q I E H H L F P S M P R H N F S K I Q P A V E T L C K K Y N V R Y H T T G M I E G T A E V E S R L N E V S K A A S	349
ATTS4723	W W	105
12-5	L Q F Q L E H H L F P R L P R C H L R K V S P V G Q R G F Q R K X N L S X	252
T42806	L N F Q I E H H L F P T M P R H N Y H X V A P L V Q S L C A K H G I E Y Q S K P L	125
W28140	L N Y Q I E H H L F P T M P R C N L N R C M K Y V K E W C A E N N L P Y L V D D Y F V G Y N L N L Q Q L K N M A E L V Q	131
R05219	L N F Q I E H H L F P T M P R H N Y R X V A P L V K A F C A K H G L H Y E V	83
W53753	K M G K A Q	143
Ma524	W W	355
ATTS4723	W W	105
12-5	W W	252
T42806	W W	125
W28140	W W	131
R05219	W W	87
W53753	W W	148

FIG. 4B

APPROVED	C. G. FIG.	
BY	WO 98/36763	CLASS
DRAFTSMAN	SUBCLASS	

09/367013
PCT/US98/07126

60 *
GTCCCCGTGC GCTGTCGGCA CACCCCATCC TCCCTCGCTC CCTCTGCGTT TGTCCCTTGGC
120 *
CCACCGTCTC TCCTCCACCC TCCGAGACGA CTGCAACTGT AATCAGGAAC CGACAAATAC
180 *
ACGATTTCCTT TTTACTCAGC ACCAACTCAA AATCCTCAAC CGCAACCCTT TTTCAGG ATG
Met
GCA CCT CCC AAC ACT ATC GAT GCC GGT TTG ACC CAG CGT CAT ATC AGC
Ala Pro Pro Asn Thr Ile Asp Ala Gly Leu Thr Gln Arg His Ile Ser
240 *
ACC TCG GCC CCA AAC TCG GCC AAG CCT GCC TTC GAG CGC AAC TAC CAG
Thr Ser Ala Pro Asn Ser Ala Lys Pro Ala Phe Glu Arg Asn Tyr Gln
300 *
CTC CCC GAG TTC ACC ATC AAG GAG ATC CGA GAG TGC ATC CCT GCC CAC
Leu Pro Glu Phe Thr Ile Lys Glu Ile Arg Glu Cys Ile Pro Ala His
360 *
TGC TTT GAG CGC TCC GGT CTC CGT GGT CTC TGC CAC GTT GCC ATC GAT
Cys Phe Glu Arg Ser Gly Leu Arg Gly Leu Cys His Val Ala Ile Asp
420 *
CTG ACT TGG GCG TCG CTC TTG TTC CTG GCT GCG ACC CAG ATC GAC AAG
Leu Thr Trp Ala Ser Leu Leu Phe Leu Ala Ala Thr Gln Ile Asp Lys
TTT GAG AAT CCC TTG ATC CGC TAT TTG GCC TGG CCT GTT TAC TGG ATC
Phe Glu Asn Pro Leu Ile Arg Tyr Leu Ala Trp Pro Val Tyr Trp Ile

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FIG. 5A

APPROVED	C. C. FIG	
BY	CLW	98/46763
DRAFTSMAN		SS

PCT/US98/07126

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480 *
ATG CAG GGT ATT GTC TGC ACC GGT GTC GTG CTG GCT CAC GAG TGT
Met Gln Gly Ile Val Cys Thr Gly Gly 540 *
GGT CAT CAG TCC TTC TCG ACC TCC AAG ACC CTC AAC AAC ACA GTT GGT
Gly His Gln Ser Phe Ser Ser Thr Ser Lys Thr Leu Asn Asn Thr Val Gly

600 *
TGG ATC TTG CAC TCG ATG CTC TTG GTC CCC TAC CAC TCC TGG AGA ATC
Trp Ile Leu His Ser Met Leu Leu Val Val Tyr His Ser Trp Arg Ile

660 *
TCG CAC TCG AAG CAC CAC AAG GCC ACT GGC CAT ATG ACC AAG GAC CAG
Ser His Ser Lys His His CAC His Ala Thr Thr Met Thr Lys Asp Gln

720 *
GTC TTT GTG CCC AAG ACC CGC TCC CAG GTC GGC TTG CCT CCC AAG GAG
Val Phe Val Pro Lys Thr Arg Ser Ser Gln Val Gly Leu Pro Pro Lys Glu

780 *
AAC GCT GCT GCT GCC GTC CAG GAG GAC ATG TCC GTG CAC CTG GAT
Asn Ala Ala Ala Ala Val Val Gln Glu Glu Asp Met Ser Val His Leu Asp

840 *
GAG GAG GCT CCC ATT GTG ACT TTG TTC TGG ATG GTG ATC CAG TTC TTG
Glu Glu Ala Pro Ile Val Val Thr Leu Leu Phe Thr Met Val Ile Gln Phe Leu

TTC GGA TGG CCC GCG TAC CTG ATT ATG AAC GCC TCT GGC CAA GAC TAC
Phe Gly Trp Pro Ala Tyr Leu Ile Met Asn Ala Ser Gly Gln Asp Tyr

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SUBSTITUTE SHEET (RULE 26)

FIG. 5B

APPROVED	CIB FIG.	
BY	CLAW	98/46763S
DRAFTSMAN		

PCT/US98/07126
09/367013

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GGC Gly	CGC Arg	TGG Trp	ACC Thr	TCG Ser	CAC His	TTC Phe	CAC His	ACG Thr	TAC Tyr	TCG Ser	CCC Pro	ATC Ile	TTT Phe	GAG Glu	CCC Pro	900 *
CGC Arg	AAC Asn	TTT Phe	TTC Phe	GAC Asp	ATT Ile	ATT Ile	ATC Ile	TCG Ser	GAC Asp	CTC Leu	GGT Gly	GTG Val	TTG Leu	GCT Ala	GCC Ala	
CTC Leu	GGT Gly	GCC Ala	CTG Leu	ATC Ile	TAT Tyr	GCC Ala	TCC Ser	ATG Met	CAG Gln	TTG Leu	TCG Ser	CTC Leu	TTG Leu	ACC Thr	GTC Val	
ACC Thr	AAG Lys	TAC Tyr	TAT Tyr	ATT Ile	GTC Val	CCC Pro	TAC Tyr	CTC Leu	TTT Phe	GTC Val	AAC Asn	TTT Phe	TGG Trp	TTG Lru	GTC Val	
CTG Leu	ATC Ile	ACC Thr	TTC Phe	TTG Leu	CAG Gln	CAC His	ACC Thr	GAT Asp	CCC Pro	AAG Lys	CTG Leu	CCC Pro	CAT His	TAC Tyr	CGC Arg	
GAG Glu	GGT Gly	GCC Ala	TGG Trp	AAT Asn	TTC Phe	CAG Gln	CGT Arg	GGA Gly	GCT Ala	CTT Leu	TGC Cys	ACC Thr	GTT Val	GAC Asp	CGC Arg	1140 *
TCG Ser	TTT Phe	GGC Gly	AAG Lys	Phe Leu	TTG Leu	GAC Asp	CAT His	ATG Met	TTC Phe	CAC His	GGC Gly	ATT Ile	GTC Val	CAC His	ACC Thr	
CAT His	GTG Val	GCC Ala	CAT His	CAC His	TTG Leu	TTC Phe	TCG Ser	CAA Gln	ATG Met	CCG Pro	TTC Phe	TAC Tyr	CAT His	GCT Ala	GAG Glu	

FIG. 5C

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	WO 98/46763

PCT/US98/07126
09/367013

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1260 *
GAA GCT ACC TAT CAT CTC AAG AAA CTG CTG GGA GAG TAC TAT GTG TAC
Glu Ala Thr Tyr His Leu Lys Lys Leu Leu Gly Glu Tyr Tyr Val Tyr

1320 *
GAC CCA TCC CCG ATC GTG GTT GCG GTC TGG AGG TCG TTC CGT GAG TGC
Asp Pro Ser Pro Ile Val Val Ala Val Val Trp Arg Ser Phe Arg Glu Cys

1380 *
CGA TTC GTG GAG GAT CAG GGA GAC GTG GTC TTT TTC AAG AAG TAAAA
Arg Phe Val Glu Asp Gln Gly Asp Val Val Phe Phe Lys Lys

1440 *
AAAAGACAAT GGACCAACACA CAACCTTGTC TCTACAGACC TACGTATCAT GTAGCCATAC

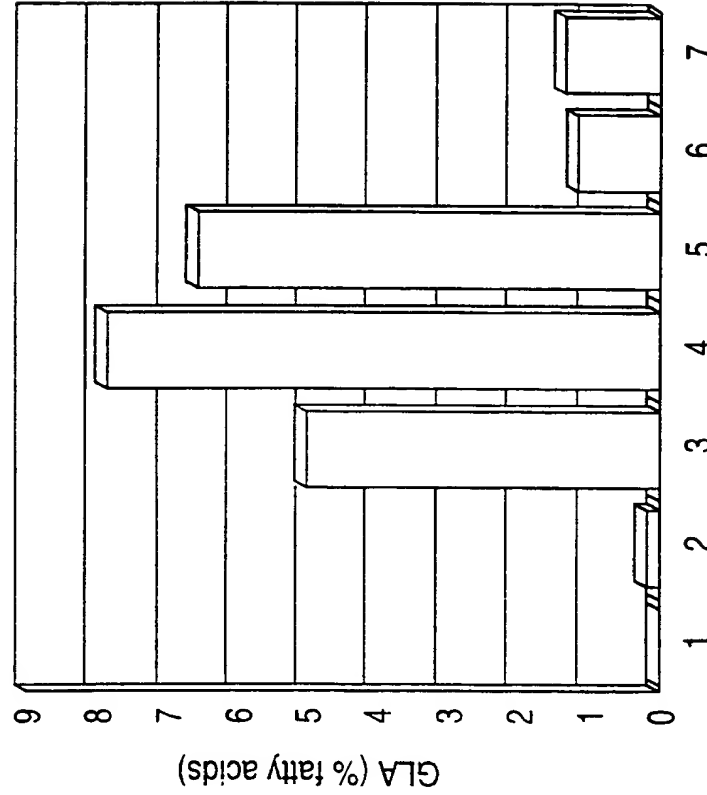
CACTTCATAA AGAACATGA GCTCTAGAGG CGTGTCATTC GCGCCTCC

```

FIG. 5D

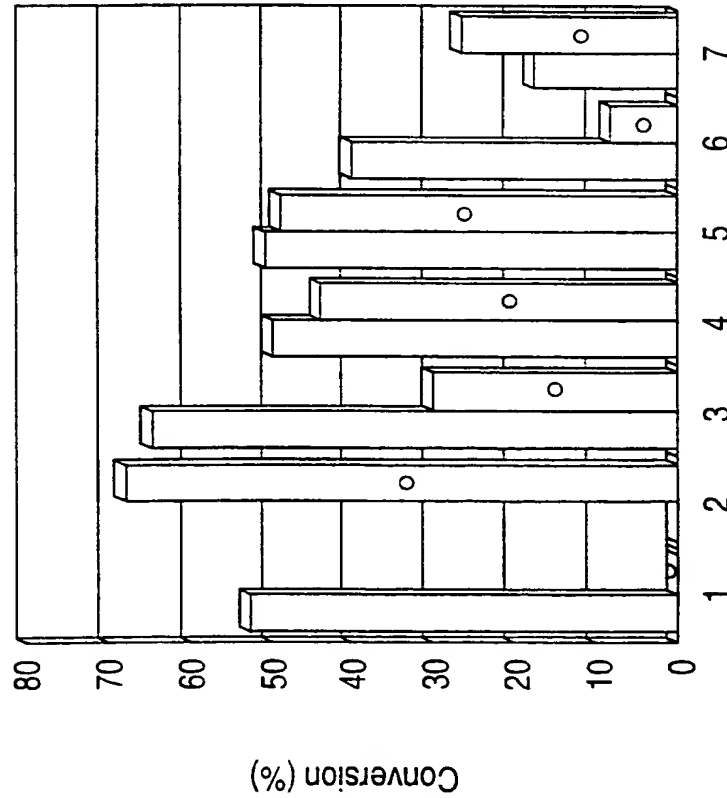
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□ GLA



Constructs

FIG. 6B

□ 18:1 to 18:2
○ 18:2 to 18:3


Constructs

FIG. 6A

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□ GLA

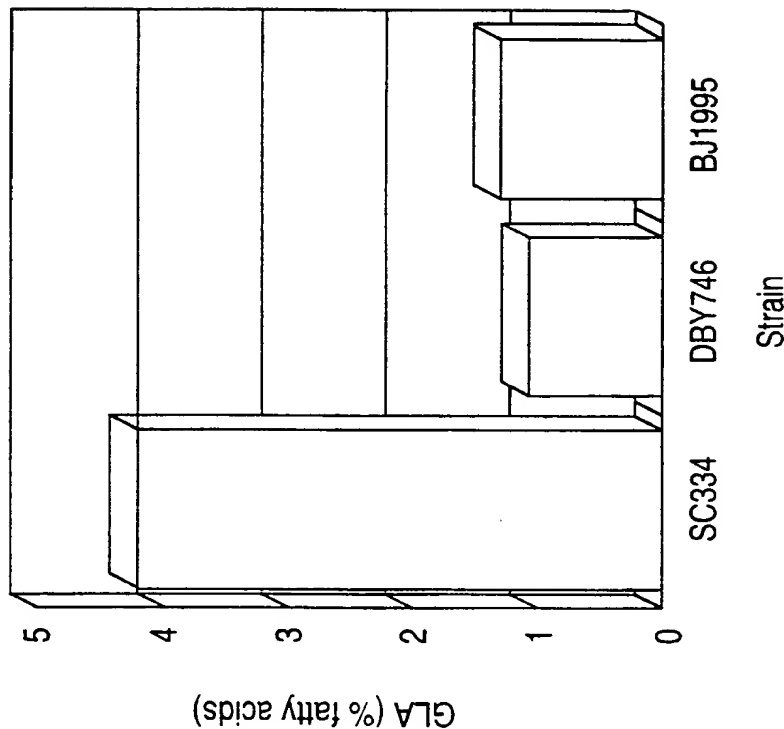


FIG. 7B

□ 18:1 to 18:2
○ 18:2 to 18:3

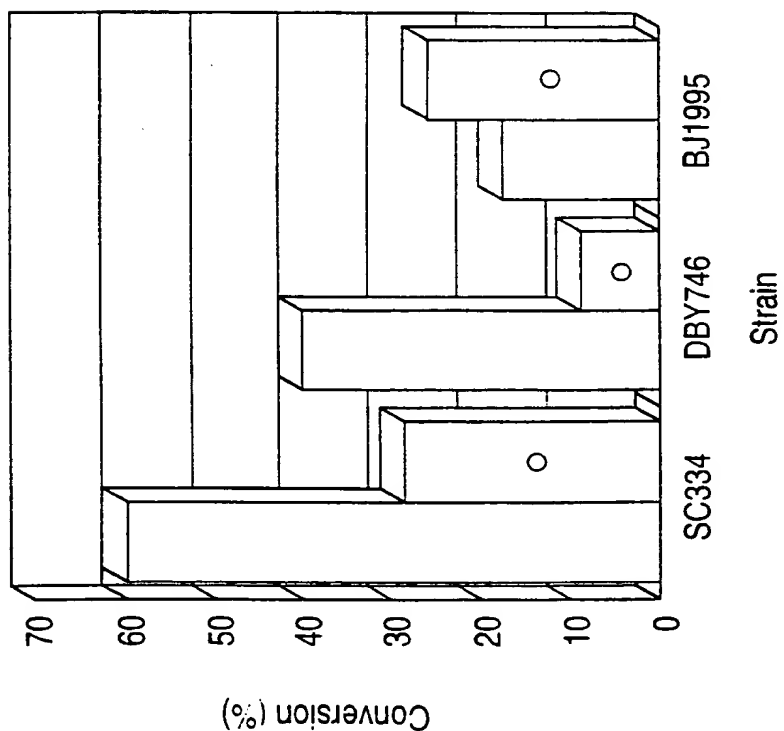


FIG. 7A

APPROVED	C. W. PG.	
BY	CLW	98/46763SS
DRAFTSMAN		

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PCT/US98/07126

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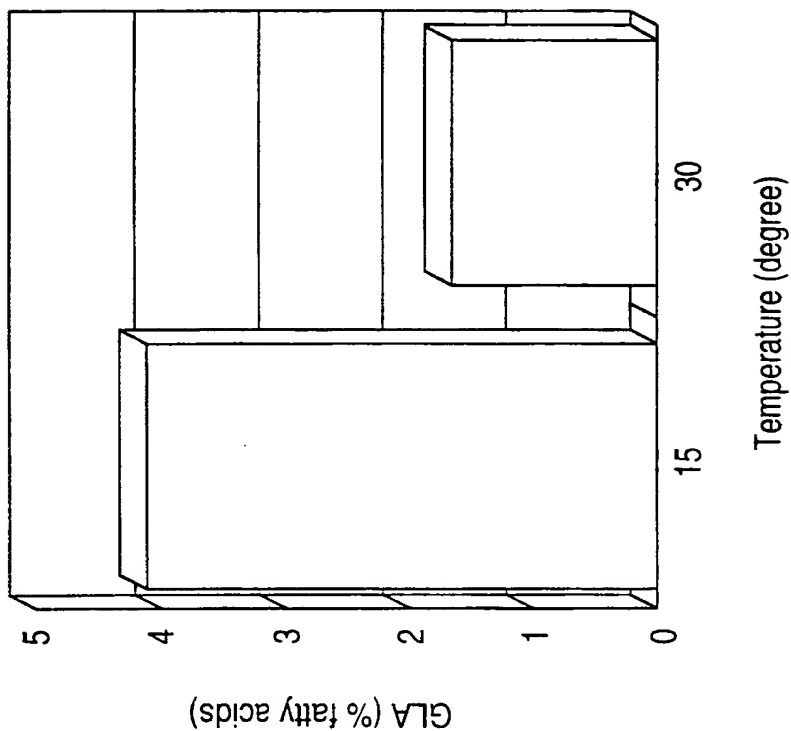


FIG. 8B

□ 18:1 to 18:2
○ 18:2 to 18:3

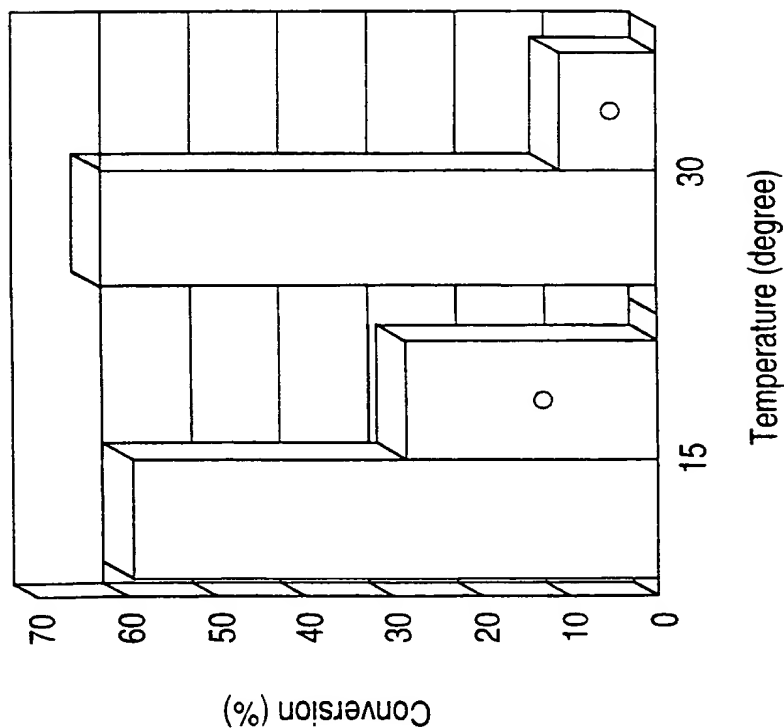


FIG. 8A

APPROVED	C. J. FIG.	
BY	CLWO	98/46163S
DRAFTSMAN		

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PCT/US98/07126

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SCORES INIT1: 117 INITN: 225 OPT: 256
SMITH-WATERMAN SCORE: 408; 27.0% IDENTITY IN 441 aa OVERLAP

ma29gcg.pep	MGTDQGKT - - - FTWEELAAHNTKDDL LLAIRGRVYDVTKFLSRHPGGVDTL LLAGARDVT	10 20 30 40 50
253538a	QGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPGGSRVISHYAGQDAT	10 20 30 40 50
ma29gcg.pep	PVFEMYHAF-GAADAIMKKYYVGT LVSNELPIFPEPTVFHKTIKTRVEGYFTDRNIDPKN	60 70 80 90 100 110
253538a	DPFVAFHINKGLVKKYMNSLLIGEL-SPEQPSF-EPTKNKELTDEFREL RATVERMGLMK	60 70 80 90 100 110
ma29gcg.pep	RPEIWGRYALIFGSLIASYYAQLFVPFVVERTWLQVVF-AIMGFACAQVGLNPLHDASH	120 130 140 150 160 170
253538a	ANHVF--FLLYLLHILLDGAAWLTLWVFGTSFLPFLLCAVLLSAVQAQAGWLQ-HDYGH	120 130 140 150 160 170
ma29gcg.pep	FSVTHNPTVWKILGATHDF - - - FNGASYLVVMYQHMLGHHPTYNIAGADPDVSTSE - - -	180 190 200 210 220
253538a	LSVYRKPK-WNHL - - VHKFVIGHLKGASANWNHRRH-FQHHAKPNI FHKDPDVNMLHV FV	180 190 200 210 220

FIG. 9A

APPROVED	C.D. FIG.	
BY	WQ 98/46763	
DRAFTSMAN	CLASS	STATUS

09/367013
PCT/US98/07126

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SCORES INIT1: 117 INITN: 225 OPT: 256
SMITH-WATERMAN SCORE: 408; 27.0% IDENTITY IN 441 aa OVERLAP

ma29gcg.pep	230	240	250	260	270	280
	- - - - PDVRRIRKPNQKWF - VNHINQHMFV - - PFLYGLLAFKVRIQDINILYFVKTNDAIRV					
	:	:	:	:	:	:
	:	:	:	:	:	:
253538a	LGEWQPIEYGKKKLKYL	PNYHQHEFFLIGPPL	IPMYFYQYQI	- - - -	IMTMI	VHKNNWVDL
	230	240	250	260	270	280
ma29gcg.pep	290	300	310	320	330	340
	NP ISTWHTVMFWGGKAFFVWYRLI VPLQYLPGLKVLLFTVADMVSSYWLALTFQANHVV					
	:	:	:	:	:	:
	:	:	:	:	:	:
253538a	- - - - AWAVSYYI	- - - - RFFITY	- - - - IPF	- YGILG	- ALLFLNF	IRFLESHWFVWVTQMNHIV
	290	300	310	320	330	340
ma29gcg.pep	350	360	370	380	390	
	EEVQWPLPDENG I IQKDWAAMQVETT - - - - QDYAHDShLWTSITGSLNYQAVVHHLFPNV					
	:	:	:	:	:	:
	:	:	:	:	:	:
253538a	MEI	- - - - DQEAY	- - RDWFSSQLTATCNVEQSFFND	- - - - WFS	- - - - GHLNFQIEHHLFPTMP	
	340	350	360	370		
ma29gcg.pep	400	410	420	430	440	
	QHHYPDILAI IKNTCSEYKVPYLVKDTFWQAFASHLEHLRVGLRPKEEX					
	:	:	:	:	:	:
	:	:	:	:	:	:
253538a	RHNLHKIAPLVKSLCAKHGIEYQEKPLLRALLD	I	IRSLKSGKLWLDAYLHKX			
	380	390	400	410	420	430

FIG. 9B

APPROVED	C.G. FIG.	
BY	CLWG	98/46763SS
DRAFTSMAN		

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PCT/US98/07126

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SCORES INIT1: 231 INITN: 499 OPT: 401
SMITH-WATERMAN SCORE: 620; 27.3% IDENTITY IN 455 aa OVERLAP

ma524gcg.pep	MAAAPSVRTFTRAEVLNAEALNEGKKDAEAPFLMIIDNKVYDVREFVPDHPGGSVILTH-	10	20	30	40	50	59
	: : : : : : : : : : : : :						
253538a	QGPTPRYFTWDEV - - - - - AQRSGCEERWLVIDRKVYNISEFTRRHPPGGSRVISHY	10	20	30	40	50	
ma524gcg.pep	VGKDGTDVFDTFHPEAAW - - ETLANFYVGDIDE - - - SDRDIKNDFFAAEVRKLRITLFQSL	60	70	80	90	100	110
	: : : : : : : : : : : : : :						
253538a	AGQDATDPFVAFHINKGLVKKYMNSLLIGELSPQPSFEPTKNKELTDEFREL RATVERM	60	70	80	90	100	110
ma524gcg.pep	GYDSSKAYYAFKVSFNLCIWGLSTVIVAKWGQTSTLANVLSAALLGLFWQQCGWLAHDF	120	130	140	150	160	170
	: : : : : : : : : : : : : : : : : : :						
253538a	GLMKANHVVFFLLYLHLILLDGAAWLTLWVFG - TSFLPFLLCVLLSAVQAQAGWLQHDY	120	130	140	150	160	
ma524gcg.pep	LHHQVFQDRFWGDLFGAFLGGVCQGFSSWWKDKHNTHHAAPNVHGEDPDIDTHPLLTWS	180	190	200	210	220	230
	: : : : : : : : : : : : : :						
253538a	GHL SVYRKPKWNHLVHKFVIGHLKGASANWNHRRHFQHHAKPNI FHKDPD VN - - - ML - - -	170	180	190	200	210	220

FIG. 10A

APPROVED BY	019. FIG.
DRAFTSMAN	CWG 98/46763

09/367013

PCT/US98/07126

20/20

SCORES INIT1: 231 INITN: 499 OPT: 401
SMITH-WATERMAN SCORE: 620; 27.3% IDENTITY IN 455 aa OVERLAP

ma524gcg.pep	240	250	260	270	280	290
	EHALEMFSVPDEELTRMWSRFMVLNQTWFFPILS---FARLSWCLOQSILFVLPNGQAH					
		:	:	:	:	:
		:	:	:	:	:
		:	:	:	:	:
253538a	230	240	250	260	270	
	-HVF-VLGEWQPIEYGKKKLYLPYNHQHEYFFLIGPPLLIPMYFQYQIMTMI-----VH					
		:	:	:	:	:
		:	:	:	:	:
		:	:	:	:	:
ma524gcg.pep	300	310	320	330	340	349
	KPSGARVPISLVEQLSLAMHWTWYLATMFLFIK--DPVNMLVYFLVSQLVCGNLLAIVFS					
		:	:	:	:	:
		:	:	:	:	:
		:	:	:	:	:
253538a	280	290	300	310	320	
	K-----NWVDLAWAVSYIRFFITYIPFYGILGALLFNFIREFLESHWFWVWTQ					
		:	:	:	:	:
		:	:	:	:	:
		:	:	:	:	:
ma524gcg.pep	350	360	370	380	390	400
	LNHNMGMPVISKEEAVDMDFFTKQITGRDVHPGLFANWFTGGLNYQIEHHLFPSMPRHNF					
		:	:	:	:	:
		:	:	:	:	:
		:	:	:	:	:
253538a	330	340	350	360	370	380
	MNHIVMEI--DQEAYR-DWFSSQLTATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNL					
		:	:	:	:	:
		:	:	:	:	:
		:	:	:	:	:
ma524gcg.pep	410	420	430	440	450	
	SKIQPAVETLCKKYNVRYHTTGMIEGTAEVFSRLNEVSKAASKMGKAQX					
		:	:	:	:	:
		:	:	:	:	:
		:	:	:	:	:
253538a	390	400	410	420	430	
	HKIAPLVKSLCAKHGIEYQEKPLRALLDIIRSLKSKGKLWLDAYLHKX					

FIG. 10B